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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/086,753	03/01/2002	Ravi Kumar	ARVI-001 8757		
7590 08/03/2006			EXAMINER		
DAVID P GO		HO, UYEN T			
65 WOODS EN	D JACOBSON P.C. ND ROAD	ART UNIT	PAPER NUMBER		
STAMFORD,	CT 06905	3731			
			DATE MAILED: 08/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No	Applicant(s)			
Office Action Summary							
		10/086,75	3	KUMAR, RAVI			
		Examiner		Art Unit			
	The MAIL INC DATE of this account of the		in-Uyen T. Ho	3731			
Period fo	The MAILING DATE of this communication r Reply	n appears on the	cover sheet with the c	orrespondence ac	Idress		
WHIC - Exter after - If NO - Failui Any r	DRTENED STATUTORY PERIOD FOR RI HEVER IS LONGER, FROM THE MAILIN sions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communicatio period for reply is specified above, the maximum statutory p e to reply within the set or extended period for reply will, by s eply received by the Office later than three months after the d patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH FR 1.136(a). In no eve n. eriod will apply and wil statute, cause the appli	IS COMMUNICATION  nt, however, may a reply be tim  I expire SIX (6) MONTHS from a cation to become ABANDONEI	<b>J.</b> nely filed the mailing date of this c D (35 U.S.C. § 133).	,		
Status							
2a)☐ 3)☐	Responsive to communication(s) filed on 2 This action is <b>FINAL</b> . 2b) Since this application is in condition for all closed in accordance with the practice unc	This action is no owance except	for formal matters, pro		e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-3,5-8,10-12,15-18 and 21-28 is 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-3, 5, 6-8, 10-12, 15-18 and 21-18 Claim(s) is/are objected to. Claim(s) are subject to restriction a  con Papers The specification is objected to by the Example of the specification is objected to by the Example of the deputing(s) filed on is/are; a)	ndrawn from cor 28 is/are rejecte nd/or election re miner.	esideration. d. equirement.	- -			
	The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	o the drawing(s) borrection is require	e held in abeyance. See	e 37 CFR 1.85(a). jected to. See 37 C	• •		
Priority u	nder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)		

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## **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments filed 4/14/06 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5, 6-8, 10-12, 15-18 and 21-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Purdy (5,527,338) in view of Mebin-Uddin (3,540,431). Purdy discloses occlusion devices (figs. 7-10) comprising a plug having a tapered out surface, a larger diameter section, an interior chamber with rear opening, a plurality of spokes and an attachment means and said plug being sufficiently rigid in order to resist compressive forces applied thereto by the inner wall of the blood vessel such that the plug is gripped by compressive forces exerted by the elastic nature of the inner wall of the blood vessel (fig. 11), the plug inherently comprising an inner corrugated surface disposed within said interior chamber due to the plurality of spokes extending from the interior chamber. Purdy fails to disclose:
  - an insertion device having interface means that cooperates with the attachment means of the plug to attached the plug to the insertion device
  - the plug is made of silicon

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- a spring and a lever to compress and decompress the spring to propel the needle outwards
- the outer wall diameter as claimed

Regarding to the insertion device and attachment means, Mebin-Uddin disclose an insertion device and attachment means as claimed for inserting a blood vessel filter plug that has similar structure of the blood vessel occlusion plug of Mebin-Uddin into a blood vessel. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ an insertion device and attachment means in view of Mebin-Uddin into Purdy's occlusion apparatus in order to deliver the Purdy's occlusion device into a treated site of a blood vessel.

Regarding to the plug being made of silicon, Purdy discloses the plug being made from suitable material which can block the flow of fluid (col. 7, lines 50-67) and with a plurality of spokes or skeleton being made from metal (col. col. 9, lines 22-40). Purdy also discloses silicone polymer is the material that produce thrombosis particle in order to help occluding the fluid flow (col. 6, lines 28-32). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the plug fabric from silicon polymer material in order to enhance the occlusion.

Regarding to a spring and lever to compress and decompress the spring to propel the needle outwards, although the combined teaching of Purdy in view of Mebin-Uddin does not disclose the spring and lever as claimed, it is well known in the surgical art to provide a handle with spring and lever to compress and decompress the spring in order to propel the needle outwards. Therefore, it would have been obvious to one

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having ordinary skill in the art at the time the invention was made to employ a handle comprising a spring and lever as claimed into the apparatus of Purdy in view of Mebin-Uddin in order to enhance propelling the needle (42) outwards so that to inject the plug to a target site.

Regarding to the outer wall diameter of the plug, the diameter as claimed is within the workable range, therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the plug of Purdy in view of Mebin-Uddin at the diameter as claimed in order to accommodate with blood vessel lumen having inner diameter in the range of 1mm-4mm.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Jackie) Tan-Uyen T. Ho whose telephone number is 571-272-4696. The examiner can normally be reached on MULTIFLEX Mon. to Sat..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANHTUAN NGUYEN can be reached on 571-272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jackie) Tan-Uyen T. Ho Primary Examiner

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July 27, 2006